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2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

**Europäisches
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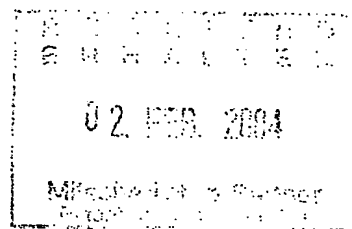
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Körfer, Thomas, Dipl.-Phys.
Mitscherlich & Partner,
Patent- und Rechtsanwälte,
Sonnenstrasse 33
80331 München
ALLEMAGNE



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Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

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melder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

FUJITSU LIMITED

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

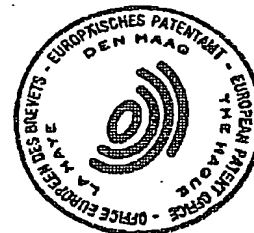
The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 1A-C



REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05, 30 June 1995 (1995-06-30) & JP 07 036187 A (NIPPON KAYAKU CO LTD), 7 February 1995 (1995-02-07) * abstract *	1	G03F7/40 G03F7/00 H01L21/027 H01L21/8247 H01L27/115 G11B5/31
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 197 (P-1723), 6 April 1994 (1994-04-06) & JP 06 003824 A (MITSUBISHI KASEI CORP), 14 January 1994 (1994-01-14) * abstract *	1-4, 14, 15	
X	US 4 572 870 A (VASTA JOSEPH A) 25 February 1986 (1986-02-25) * claims *	1-3	
X	US 4 503 174 A (VASTA JOSEPH A) 5 March 1985 (1985-03-05) * claims *	1-3	
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 495 (P-1436), 14 October 1992 (1992-10-14) -& JP 04 178648 A (DAINIPPON PRINTING CO LTD), 25 June 1992 (1992-06-25) * abstract *	1-3	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G03F H01L G11B
A	EP 1 152 036 A (CLARIANT INT LTD) 7 November 2001 (2001-11-07) * the whole document *	1	
A	DE 100 14 083 A (RYODEN SEMICONDUCTOR SYST ENG ;MITSUBISHI ELECTRIC CORP (JP)) 22 March 2001 (2001-03-22) * the whole document *	1	
		-/--	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 January 2004	Examiner Heywood, C
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	DE 198 43 179 A (MITSUBISHI ELECTRIC CORP) 22 July 1999 (1999-07-22) * the whole document *	1	
A	US 5 858 620 A (TOYOSHIMA TOSHIYUKI ET AL) 12 January 1999 (1999-01-12) * the whole document *	1	
A	US 2002/037476 A1 (KAMIJIMA AKIFUMI) 28 March 2002 (2002-03-28) * paragraphs '0050!-'0060! *	1,16	
A	US 6 319 853 B1 (TOYOSHIMA TOSHIYUKI ET AL) 20 November 2001 (2001-11-20) * the whole document *	1,20,21	
A	EP 1 223 470 A (CLARIANT INT LTD) 17 July 2002 (2002-07-17) * the whole document *	1	
A	WO 02 10858 A (CLARIANT INT LTD ;CLARIANT FINANCE BVI LTD (GB)) 7 February 2002 (2002-02-07) * the whole document *	1,16	
P,A	WO 03 014830 A (FUJITSU LTD ;KON JUNICHI (JP); KOZAWA MIWA (JP); NOZAKI KOJI (JP);) 20 February 2003 (2003-02-20) * the whole document *	1	
P,X	EP 1 315 043 A (FUJITSU LTD) 28 May 2003 (2003-05-28) * paragraph '0084!; claims 1,7,18-20 *	1,2,4-9,14-16	
E	EP 1 343 052 A (FUJITSU LTD) 10 September 2003 (2003-09-10) * claims *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 January 2004	Examiner Heywood, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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13-01-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 07036187	A	07-02-1995	NONE	
JP 06003824	A	14-01-1994	NONE	
US 4572870	A	25-02-1986	AU 574627 B2	07-07-1988
			AU 4582185 A	13-02-1986
			BR 8503695 A	06-05-1986
			CA 1256624 A1	27-06-1989
			DE 3567472 D1	16-02-1989
			DK 361385 A	10-02-1986
			EP 0174725 A1	19-03-1986
			NO 853138 A ,B,	10-02-1986
			NZ 213051 A	30-05-1988
			JP 61081467 A	25-04-1986
US 4503174	A	05-03-1985	AU 561517 B2	07-05-1987
			AU 3268984 A	14-03-1985
			BR 8404422 A	30-07-1985
			CA 1246777 A1	13-12-1988
			DE 3483991 D1	28-02-1991
			DK 426384 A	07-03-1985
			EP 0136842 A2	10-04-1985
			JP 60072965 A	25-04-1985
			NO 843525 A ,B,	07-03-1985
JP 04178648	A	25-06-1992	JP 3006873 B2	07-02-2000
EP 1152036	A	07-11-2001	JP 2001019860 A	23-01-2001
			EP 1152036 A1	07-11-2001
			US 6555607 B1	29-04-2003
			CN 1314931 T	26-09-2001
			WO 0100735 A1	04-01-2001
DE 10014083	A	22-03-2001	JP 2001066782 A	16-03-2001
			DE 10014083 A1	22-03-2001
			TW 473648 B	21-01-2002
			US 6593063 B1	15-07-2003
DE 19843179	A	22-07-1999	JP 3189773 B2	16-07-2001
			JP 11204399 A	30-07-1999
			DE 19843179 A1	22-07-1999
			IT MI982032 A1	20-03-2000
			TW 393699 B	11-06-2000
			US 6319853 B1	20-11-2001
US 5858620	A	12-01-1999	DE 19706495 A1	08-01-1998

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 01 7270

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-01-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5858620 A		JP 3071401 B2	31-07-2000
		JP 10073927 A	17-03-1998
		KR 218217 B1	01-09-1999
US 2002037476 A1	28-03-2002	JP 3348715 B2	20-11-2002
		JP 2001242636 A	07-09-2001
US 6319853 B1	20-11-2001	JP 3189773 B2	16-07-2001
		JP 11204399 A	30-07-1999
		DE 19843179 A1	22-07-1999
		IT MI982032 A1	20-03-2000
		TW 393699 B	11-06-2000
EP 1223470 A	17-07-2002	JP 2001109165 A	20-04-2001
		EP 1223470 A1	17-07-2002
		CN 1377477 T	30-10-2002
		WO 0125854 A1	12-04-2001
WO 0210858 A	07-02-2002	WO 0210858 A2	07-02-2002
		EP 1307785 A2	07-05-2003
		TW 536734 B	11-06-2003
WO 03014830 A	20-02-2003	JP 2003131400 A	09-05-2003
		EP 1315997 A1	04-06-2003
		WO 03014830 A1	20-02-2003
		US 2003175624 A1	18-09-2003
EP 1315043 A	28-05-2003	EP 1315043 A1	28-05-2003
		CN 1421743 A	04-06-2003
		CN 1421744 A	04-06-2003
		US 2003102285 A1	05-06-2003
		US 2003157801 A1	21-08-2003
EP 1343052 A	10-09-2003	JP 2003255564 A	10-09-2003
		CN 1442752 A	17-09-2003
		EP 1343052 A2	10-09-2003
		US 2003170571 A1	11-09-2003